

## 2<sup>nd</sup> Quarter 2024 Site ALARA Committee Meeting Minutes

August 26, 2024

Prepared by Diana Jennings

### Introduction

Kent Williams welcomed everyone to the meeting. As the safety topic, Kent discussed the increase of traffic due to school being in session and being aware of traffic laws at bus stops. He also mentioned that deer season has begun in South Carolina and as the weather cools, more deer and wildlife may be on the move. A quorum was then established for the Site ALARA Committee (SAC) and the Change Control Board. See attached meeting roster.

### Environmental ALARA Update

Eric Doman, Environmental ALARA Chairperson, discussed the Liquid Discharges and Airborne Emissions as of June 2024. See attached slides 3-5. Eric also discussed HP-50 as questions were brought up during the previous Site ALARA Committee meeting. All totals and projections look good for the current calendar year and therefore no changes were requested.

### 2<sup>nd</sup> Quarter Performance Indicators

The meeting was then turned over to Diana Jennings to discuss the 2<sup>nd</sup> Quarter Performance Indicators. M&O goals versus actual dose were discussed first. See slide 7. The following facilities were greater than +/-25% of the ALARA Goal and were required to discuss.

HCA- Kevin Moeller stated that the FCA delays caused H-Canyon's overall dose to be low, however work has started and will continue to happen during the 3<sup>rd</sup> and 4<sup>th</sup> Quarters. There are also plans to make repairs in the canyon and the legacy material may cause higher dose totals. Because of this, H-Canyon did not request to make any changes to their ALARA Goals.

L-Area – Jeremy Mathis stated that the Mark 18 Cask processing has been delayed and will not take place during CY 2024, so they requested to lower the 3<sup>rd</sup> and 4<sup>th</sup> Quarters from 1 rem to 0.6 rem per quarter. This was approved per the board.

SWM- Terry Pifer stated that they are currently working with HPS because they had one individual that had a dosimeter reading of over 300 mrem with no explanation as to where it came from. He also stated that they share many riggers with other areas that obtain their dosimetry in E-Area, which has also contributed to the dose. Because of this, they requested .5 rem be added to their ALARA goals for the 3<sup>rd</sup> and 4<sup>th</sup> Quarter. This was approved per the board.

CLB- Terry Pifer stated that the CY 2024 ALARA Goals for CLB were based on decreased work scope and less personnel, of which they were expecting about 50 personnel receiving dosimetry. The average number of people receiving dosimetry has actually been 140-150 per quarter which

has increased the amount of dose being assigned to CLB. An increase of 1.5 rem for the 3<sup>rd</sup> Quarter and 0.5 rem for the 2<sup>nd</sup> Quarter was requested. The request was approved per the board.

Centerra- Ethan Vanfossen stated that 50% less people picked up dose during the 1<sup>st</sup> and 2<sup>nd</sup> quarter than expected. At the time of this meeting, Centerra was working with HPS to investigate personnel dose and decide what changes need to be made to the ALARA Goals. Diana stated that she would send out the request via email in the coming days to voting members and chairperson. On Thursday, August 29<sup>th</sup>, 2024, the request was distributed to all SAC voting members via email. A total of 7 voting members responded with their approval. On September 3<sup>rd</sup>, 2024, Mike Swain, the SAC Chairperson gave his approval and therefore the changes were approved per the board. See attached email thread.

LWO 2<sup>nd</sup> Quarter Performance Indicators were presented. See slide 8. No comments or questions.

BSRA 2<sup>nd</sup> Quarter Performance indicators were presented. See slide 9. No comments or questions.

Radiological Events that occurred during the 2<sup>nd</sup> Quarter were then discussed. See slide 10. Mike Swain asked if there were any lessons learned to share with the group from these events. John Gall stated that there are many new personnel in the field, and they are focusing on reinforcing basic contamination control techniques. They are also continuing to stay aware of contaminated nests of wildlife, especially in areas that are not frequently occupied.

There have been no intakes of radioactive material greater than 100 mrem for CY 2024. See slide 11.

Mike Swain closed with thanking everyone for their hard work this past quarter. There were no other comments or concerns, and the meeting was adjourned.

# ATTENDANCE ROSTER

Quarter/Year: 2nd Quarter/ 2024

**Quorum Requirements: SAC = Chair/Vice Chair + 7 other members\* = 8 total**  
**\*Member may be represented by designated alternate. At least 2**  
**members from each company are required for an official vote.**  
**CCB = Chair/Vice Chair\* + 5 other members = 6 Total May be**  
**represented by designated alternate.**

**Quorum Met CCB: Yes**

**SITE ALARA COMMITTEE  
&  
CHANGE CONTROL BOARD**

**ATTENDANCE ROSTER**

**Other Meeting Attendees (print name)**

Diana Jennings

Pamela Powell

David Roberts

\*Jeremy Mathis (for Neil McIntosh)

\*Maxwell Smith (for Matt Arnold)

Additional attendees via Microsoft Teams on the following page.

Full Name	User Action	Timestamp
Diana Jennings	Joined	8/26/24, 12:45:57 PM
Christina Knox	Joined	8/26/24, 12:45:58 PM
Teresa Eddy	Joined	8/26/24, 12:45:58 PM
Page Courtney	Joined	8/26/24, 12:45:58 PM
Trinidad Bush	Joined	8/26/24, 12:46:14 PM
+1 803-557-3267	Joined	8/26/24, 12:47:17 PM
Ashley Eskew	Joined	8/26/24, 12:50:30 PM
CR-730-1B-139 (Unverified)	Joined	8/26/24, 12:50:44 PM
CR-730-1B-139 (Unverified)	Left	8/26/24, 12:55:40 PM
Robert Entzminger	Joined	8/26/24, 12:51:28 PM
Carol Hunter	Joined	8/26/24, 12:52:43 PM
Derek Colligan	Joined	8/26/24, 12:53:13 PM
Casey Williams	Joined	8/26/24, 12:53:20 PM
Eric Doman	Joined	8/26/24, 12:53:34 PM
+1 803-952-8253	Joined	8/26/24, 12:53:45 PM
Jamie Willing	Joined	8/26/24, 12:54:34 PM
John Gall	Joined	8/26/24, 12:55:41 PM
Kevin Moeller	Joined	8/26/24, 12:55:50 PM
CR-730-1B-139 (Unverified)	Joined	8/26/24, 12:55:58 PM
+1 803-725-8757	Joined	8/26/24, 12:56:02 PM
Maxwell Smith	Joined	8/26/24, 12:56:21 PM
Dennis Hadlock	Joined	8/26/24, 12:56:43 PM
Stephanie Blazer	Joined	8/26/24, 12:56:59 PM
Scott Craft	Joined	8/26/24, 12:57:02 PM
Wayne Minton	Joined	8/26/24, 12:57:37 PM
Terry Pifer	Joined	8/26/24, 12:57:43 PM
VANFOSSEN, ETHAN	Joined	8/26/24, 12:57:49 PM
Gregory Walkup	Joined	8/26/24, 12:57:52 PM
Paul Bordon	Joined	8/26/24, 12:58:09 PM
Joy Epps	Joined	8/26/24, 12:58:42 PM
+1 706-627-3268	Joined	8/26/24, 12:58:53 PM
Jeremy Mathis	Joined	8/26/24, 12:59:12 PM
Rhianna Hubbard	Joined	8/26/24, 12:59:23 PM
Kristin Brant	Joined	8/26/24, 1:00:17 PM
Megan Corbin	Joined	8/26/24, 1:00:58 PM
OWEN, AUSTIN A	Joined	8/26/24, 1:03:10 PM
Ronald Sykes	Joined	8/26/24, 1:04:00 PM
Joseph Brutto	Joined	8/26/24, 1:05:40 PM
Phillip Owens	Joined	8/26/24, 1:05:49 PM
Alyson Jennings	Joined	8/26/24, 1:08:57 PM
LEE GAUSE-MCNAIR	Joined	8/26/24, 1:10:27 PM
+1 803-208-8095	Joined	8/26/24, 1:10:58 PM
+1 803-208-8095	Left	8/26/24, 1:10:58 PM
Bruce Long	Joined	8/26/24, 1:12:41 PM
+1 803-208-8095	Joined	8/26/24, 1:13:15 PM
NELSON, ROBERT K	Joined	8/26/24, 1:14:21 PM

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Site ALARA Committee Meeting

Kent Williams  
Radiological Protection Department Director

August 26, 2024

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Agenda



1. Introduction

2. Environmental ALARA Update

3. 2<sup>nd</sup> Quarter Performance Indicators

Kent Williams

Eric Doman

Diana Jennings

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Environmental ALARA Update

Eric Doman  
Environmental Compliance & Area Completion Projects

August 26, 2024


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2024 Environmental ALARA Guides Status- Liquid Discharges 					
Liquid Discharges					
ALARA Guide Summary Report for All Areas – June 2024					
Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide
A-Area_LIQUID	1.10E-05	2.21E-05	6.00E-05	18.4%	36.8%
F-Area_LIQUID	5.40E-06	1.08E-05	5.86E-04	0.9%	1.8%
F-Tank Farm_LIQUID	1.85E-05	3.69E-05	2.00E-03	0.9%	1.8%
G-Area_LIQUID	4.43E-05	8.86E-05	4.16E-02	0.1%	0.2%
H-Area_LIQUID	3.20E-04	6.39E-04	5.20E-03	6.1%	12.3%
H-ETP_LIQUID	7.30E-04	1.46E-03	1.00E-02	7.3%	14.6%
H-Tank Farm_LIQUID	1.45E-03	2.90E-03	8.65E-03	16.8%	33.5%
K-Area_LIQUID	0.00E+00	0.00E+00	3.60E-04	0.0%	0.0%
L-Area_LIQUID	0.00E+00	0.00E+00	6.32E-04	0.0%	0.0%
S-Area_LIQUID	1.28E-06	2.57E-06	1.65E-04	0.8%	1.6%
Tritium_LIQUID	3.32E-05	6.64E-05	1.59E-03	2.1%	4.2%
Site Totals:	2.65E-03	5.31E-03	7.08E-02	3.7%	7.5%

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2024 Environmental ALARA Guides Status- Airborne Emissions



Airborne Emissions

ALARA Guide Summary Report for All Areas – June 2024

Area	YTD TED (mrem)	Projected Annual TED (mrem/yr)	Alara Guide (mrem/yr)	YTD % of Guide	Projected % of Guide
A-Area_AIR	0.00E+00	0.00E+00	1.70E-03	0.0%	0.0%
C-Area_AIR	1.67E-06	3.35E-06	4.50E-04	0.4%	0.7%
F-Area_AIR	2.68E-05	5.36E-05	6.26E-04	4.3%	8.6%
H-Area_AIR	6.50E-06	1.30E-05	4.96E-03	0.1%	0.3%
H-ETP_AIR	0.00E+00	0.00E+00	1.00E-07	0.0%	0.0%
H-Tank Farm_AIR	3.36E-09	6.71E-09	1.00E-06	0.3%	0.7%
J-Area_AIR	0.00E+00	0.00E+00	1.00E-06	0.0%	0.0%
K-Area_AIR	2.30E-05	4.60E-05	4.05E-03	0.6%	1.1%
L-Area_AIR	2.59E-05	5.18E-05	4.75E-03	0.5%	1.1%
S-Area_AIR	2.16E-05	4.32E-05	6.60E-04	3.3%	6.5%
Tritium_AIR	8.12E-03	1.62E-02	2.66E-01	3.1%	6.1%
Z-Area_AIR	2.57E-09	5.14E-09	5.00E-06	0.1%	0.1%
Site Totals:	8.23E-03	1.65E-02	2.83E-01	2.9%	5.8%



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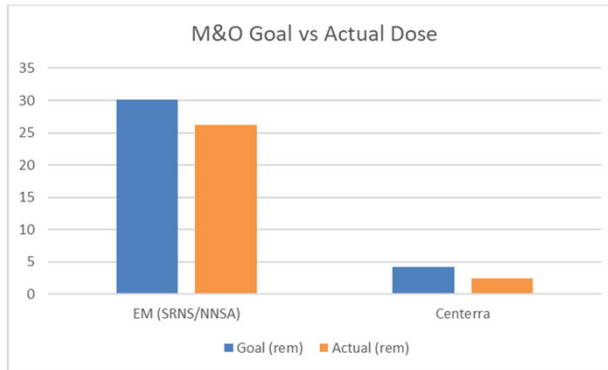
2<sup>nd</sup> Quarter Performance Indicators

Diana Jennings

Site ALARA Coordinator

August 26, 2024

## M&O Performance Indicators – 2<sup>nd</sup> Quarter



	Goal (rem)	Actual (rem)	Percent
EM (SRNS/NNSA)	30.116	26.261	-12
Centerra	4.25	2.457	-42

### Maximum Individual Dose

	YTD (rem)
Whole Body	0.472 (KAC) 0.184 (Centerra)
Extremity	8.649 (KAC) 0.184 (Centerra)

### Facilities +/- 25%

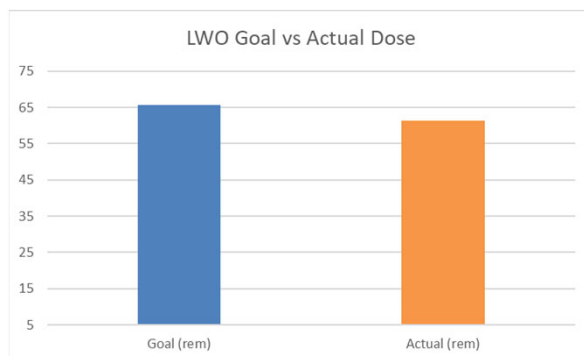
Facility	Goal (rem)	Actual (rem)	Percent
HCA	6.036	3.552	-41
L-Area	2	1.113	-44
SWM	1.8	3.014	+67
CLB	0.250	1.069	+328
Centerra	4.25	2.457	-42

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## LWO Performance Indicators – 2<sup>nd</sup> Quarter



	Goal (rem)	Actual (rem)	Percent
LWO	65.546	61.419	-6

### Maximum Individual Dose

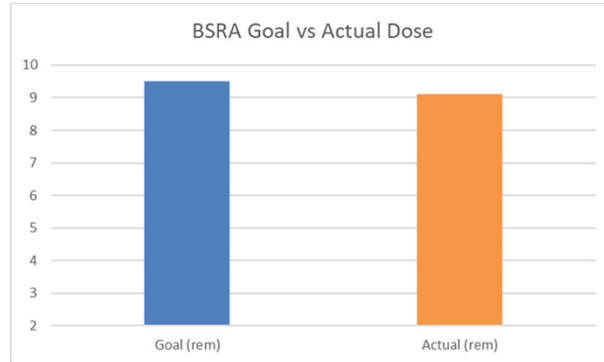
	YTD (rem)
Whole Body	0.515 (SWPF)
Extremity	1.459 (SWPF)

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## BSRA Performance Indicators – 2<sup>nd</sup> Quarter



### Maximum Individual Dose

	YTD (rem)
Whole Body	0.167
Extremity	2.297


	Goal (rem)	Actual (rem)	Percent
BSRA	9.5	9.098	-4

## Radiological Events





Title	QTR 2	Event
M&O ORPS PerCon		
M&O Non ORPS PerCon		
M&O ORPS Rad Mat		
M&O Non ORPS Rad Mat		
SRMC ORPS PerCon		
SRMC Non ORPS PerCon	4	(2) Personnel Clothing Contamination Incidents (SWPF), Tank 15 Personnel Contamination (HTF), Maintenance Worker Contamination (SWPF)
SRMC ORPS Rad Mat		
SRMC Non ORPS Rad Mat	6	Contaminated Wasps Nest (FTF), Contaminated Dirt Dauber Nest (HTF), Contaminated Bird's Nest (HTF), Contaminated HEPA Filter Housing Pedestal (Saltstone), Contamination found in RBA (HTF), Contamination found in Cell K Enclosure Gutter (Saltstone)
BSRA ORPS PerCon		
BSRA Non ORPS PerCon	1	Shoe Contamination in B-Wing
BSRA ORPS Rad Mat		
BSRA Non ORPS Rad Mat		

Intakes



Title	CY 2024
M&O > 500 mrem	0
M&O > 100 mrem	0
SRMC > 500 mrem	0
SRMC > 100 mrem	0
BSRA > 500 mrem	0
BSRA > 100 mrem	0





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## Diana Jennings

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**From:** Diana Jennings  
**Sent:** Tuesday, September 3, 2024 8:37 AM  
**To:** Anthony Carraway; Bruce Long; Carol Hunter; Debd Solomon; Geoffrey Smoland; GLEN JOHNSON; Ivonne Amidon; Janice Lawson; John Gall; Kent Williams; Kevin Webster; Lee Sims; Matthew Arnold; Neil McIntosh; Richard Sprague; Rodney Blackmon; Roy Windham; Ruby Parks; Scott Craft; Teresa Eddy; Terry Pifer  
**Cc:** Wanda Gothie; Michael Swain; Wendy Furtick; David-W Roberts; VANFOSSEN, ETHAN  
**Subject:** RE: Centerra ALARA Goal Change Request

This change has been approved per the board.

Thanks,

## Diana Jennings

Site ALARA Coordinator | Dosimetry Records | Health Physics Services  
Savannah River Nuclear Solutions, LLC  
Building 735-B - Room 120  
Office: (803) 952-5825 | SRS Cell: (803) 989-0502  
[diana.jennings@srs.gov](mailto:diana.jennings@srs.gov)

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**From:** Michael Swain <Michael.Swain@srs.gov>  
**Sent:** Tuesday, September 3, 2024 8:27 AM  
**To:** Diana Jennings <Diana.Jennings@srs.gov>  
**Cc:** Wanda Gothie <wanda.gothie@srs.gov>  
**Subject:** RE: Centerra ALARA Goal Change Request

I concur.

Thanks  
Mike

**Mike Swain** | **Savannah River Nuclear Solutions** | Executive Vice President/Chief Operating Officer for EM | ofc 803.952.7198 | mbl 803.761.2240

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**From:** Diana Jennings <[Diana.Jennings@srs.gov](mailto:Diana.Jennings@srs.gov)>  
**Sent:** Tuesday, September 3, 2024 8:07 AM  
**To:** Michael Swain <[Michael.Swain@srs.gov](mailto:Michael.Swain@srs.gov)>  
**Cc:** Wanda Gothie <[wanda.gothie@srs.gov](mailto:wanda.gothie@srs.gov)>  
**Subject:** Centerra ALARA Goal Change Request  
**Importance:** High

Mr. Swain,

Centerra is requesting a reduction in the ALARA goals for the 3<sup>rd</sup> and 4<sup>th</sup> Quarter. For the 2<sup>nd</sup> Quarter they had a goal of 4.25 rem with an actual dose of 2.457 rem. They would like to reduce the 3<sup>rd</sup> Quarter from 2.5 rem to 1 rem and the 4<sup>th</sup> Quarter from 2.25 rem to 1 rem. This will bring Centerra's ALARA Goal for CY 2024 down from 9 rem to 6.25 rem.

Ethan Vanfossen is the ALARA Coordinator and below is his reasoning for the change request:

"After analyzing the low dose summaries for 1st and 2nd quarter, it was found that the 3rd and 4th quarter of 2023 high dose summaries were due to the issues that Landauer caused and not the additional security personnel being introduced to the areas. Predictions were based off 3rd and 4th quarter 2023 and we are reducing now since Landauer issues are resolved."

I have brought it before the Site ALARA Committee voting members and now need your concurrence or objection as the committee chairperson.

Thanks,

## Diana Jennings

Site ALARA Coordinator | Dosimetry Records | Health Physics Services  
Savannah River Nuclear Solutions, LLC  
Building 735-B - Room 120  
Office: (803) 952-5825 | SRS Cell: (803) 989-0502  
[diana.jennings@srs.gov](mailto:diana.jennings@srs.gov)

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**From:** Diana Jennings

**Sent:** Thursday, August 29, 2024 12:11 PM

**To:** Anthony Carraway <[anthony.carraway@srs.gov](mailto:anthony.carraway@srs.gov)>; Bruce Long <[bruce.long@srs.gov](mailto:bruce.long@srs.gov)>; Carol Hunter <[carol.hunter@srs.gov](mailto:carol.hunter@srs.gov)>; Debd Solomon <[debd.solomon@srs.gov](mailto:debd.solomon@srs.gov)>; Geoffrey Smoland <[geoffrey.smoland@srnl.doe.gov](mailto:geoffrey.smoland@srnl.doe.gov)>; GLEN JOHNSON <[GLEN.JOHNSON@srs.gov](mailto:GLEN.JOHNSON@srs.gov)>; Ivonne Amidon <[ivonne.amidon@srs.gov](mailto:ivonne.amidon@srs.gov)>; Janice Lawson <[janice.lawson@srs.gov](mailto:janice.lawson@srs.gov)>; John Gall <[John.Gall@srs.gov](mailto:John.Gall@srs.gov)>; Kent Williams <[Kent.Williams@srs.gov](mailto:Kent.Williams@srs.gov)>; Kevin Webster <[kevin.webster@srnl.doe.gov](mailto:kevin.webster@srnl.doe.gov)>; Lee Sims <[Lee.Sims@srs.gov](mailto:Lee.Sims@srs.gov)>; Matthew Arnold <[matthew.arnold@srs.gov](mailto:matthew.arnold@srs.gov)>; Neil McIntosh <[neil.mcintosh@srs.gov](mailto:neil.mcintosh@srs.gov)>; Richard Sprague <[richard.sprague@srs.gov](mailto:richard.sprague@srs.gov)>; Rodney Blackmon <[Rodney.Blackmon@srs.gov](mailto:Rodney.Blackmon@srs.gov)>; Roy Windham <[roy.windham@srs.gov](mailto:roy.windham@srs.gov)>; Ruby Parks <[ruby.parks@srs.gov](mailto:ruby.parks@srs.gov)>; Scott Craft <[scott.craft@srs.gov](mailto:scott.craft@srs.gov)>; Teresa Eddy <[teresa.eddy@srs.gov](mailto:teresa.eddy@srs.gov)>; Terry Pifer <[terry.pifer@srs.gov](mailto:terry.pifer@srs.gov)>

**Cc:** Wendy Furtick <[wendy.furtick@srs.gov](mailto:wendy.furtick@srs.gov)>; David-W Roberts <[david-w.roberts@srs.gov](mailto:david-w.roberts@srs.gov)>; VANFOSSSEN, ETHAN <[ethan.vanfossen@srs.gov](mailto:ethan.vanfossen@srs.gov)>

**Subject:** Centerra ALARA Goal Change Request

**Importance:** High

All,

Centerra is requesting a reduction in the ALARA goals for the 3<sup>rd</sup> and 4<sup>th</sup> Quarter. For the 2<sup>nd</sup> Quarter they had a goal of 4.25 rem with an actual dose of 2.457 rem. They would like to reduce the 3<sup>rd</sup> Quarter from 2.5 rem to 1 rem and the 4<sup>th</sup> Quarter from 2.25 rem to 1 rem. This will bring Centerra's ALARA Goal for CY 2024 down from 9 rem to 6.25 rem.

Ethan Vanfossen is the ALARA Coordinator and below is his reasoning for the change request:

"After analyzing the low dose summaries for 1st and 2nd quarter, it was found that the 3rd and 4th quarter of 2023 high dose summaries were due to the issues that Landauer caused and not the additional security personnel being introduced to the areas. Predictions were based off 3rd and 4th quarter 2023 and we are reducing now since Landauer issues are resolved."

As an ALARA Committee voting member, please respond to me with your concurrence or objection on this change request.

Thanks,

## **Diana Jennings**

Site ALARA Coordinator | Dosimetry Records | Health Physics Services

Savannah River Nuclear Solutions, LLC

Building 735-B - Room 120

Office: (803) 952-5825 | SRS Cell: (803) 989-0502

[diana.jennings@srs.gov](mailto:diana.jennings@srs.gov)